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EFFICIENT RANDOM NUMBER GENERATION FOR COMMUNICATION SYSTEMS

ABSTRACT OF THE DISCLOSURE

Truly random numbers are generated with a minimum of extra hardware by taking advantage of the inherent noise in a communication channel. Random numbers can thus be generated without specialized manufacturing requirements and can be incorporated to conventional integrated circuits with minimal additional logic. The random number generation technique offloads the processor from performing extensive generation calculations without the use of the hardware accelerator. This random number generation technique may find application in, e.g., any network device that participates in a virtual private network or is used to implement electronic commerce.

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